

In the Specification

Please amend previously amended page 6, lines 3-12 as follows:

FIG. 2 is a cross sectional illustration of a portion of the accelerator based neutron source 12. The source 12 includes a stainless steel housing 31 within which is a beryllium target 32 having a first surface 33 that is bombarded by energetic particles, which may be for example protons or deuterons. In response, the beryllium target 32 produces a neutron flux ~~that flows out of the source 12 through outlet 30~~, and in the process, the beryllium target 32 becomes very hot. According to the present invention, liquid gallium is used to cool the target 32.

The source 12 includes a nozzle 34 that receives the liquid gallium and provides a concentrated flow 37 of liquid gallium onto a second surface 39 of the target 32. The second surface 39 is on the opposite side of the first surface 33. As further illustrated in Figure 2, the ~~The~~ liquid gallium fills chamber 40 and exits, through outlet 30, to the heat exchanger of illustrated in Figure 1.